

## CLAIMS

What is claimed is:

- 1 1. A device for retaining a golf club head, comprising:  
2 a housing;  
3 an insert removably coupled to said housing, said insert configured to at least partially  
4 contact the golf club head; and  
5 a locking mechanism coupled to said housing.
- 1 2. The device of claim 1, wherein said insert contains a cavity configured to at least  
2 partially contact the golf club head therein.
- 1 3. The device of claim 2, wherein said cavity is at least partially contoured to the golf  
2 club head.
- 1 4. The device of claim 3, wherein said cavity substantially envelopes the golf club head.
- 1 5. The device of claim 2, wherein:  
2 said housing includes a lower housing part and an upper housing part; and  
3 said insert includes a lower insert part coupled to said lower housing part and an upper  
4 insert part coupled to said upper housing part.
- 1 6. The device of claim 5, wherein said lower insert part is removably coupled to said  
2 lower housing part and said upper insert part is removably coupled to said upper housing part.

1     7.     The device of claim 5, wherein:

2            said lower insert part contains a lower cavity part;

3            said upper insert part contains an upper cavity part; and

4            said lower cavity part and said upper cavity part are configured to matingly form said  
5     cavity.

1     8.     The device of claim 5, wherein at least one of said lower insert part and said upper  
2     insert part defines a hole configured to allow a shaft coupled to the golf club head to pass  
3     therethrough.

1     9.     The device of claim 1, wherein said insert is formed at least in part of resin.

1     10.    The device of claim 9, wherein said resin has a gel time of approximately one hour or  
2     less.

1     11.    The device of claim 9, wherein said resin, when cured, has a specific gravity of  
2     approximately 1.7 to approximately 1.8.

1     12.    The device of claim 9, wherein said resin, when cured, has a Shore D hardness of  
2     approximately 80 to approximately 90.

1     13.    The device of claim 9, wherein said resin, when cured, has an ultimate compressive  
2     strength from approximately 8,000 psi to approximately 15,000 psi.

1     14.    The device of claim 9, wherein said resin, when cured, has an ultimate flexural  
2     strength from approximately 5,000 psi to approximately 11,000 psi.

1 15. The device of claim 9, wherein said resin, when cured, has a coefficient of thermal  
2 expansion within the range of approximately  $1.5 \cdot 10^{-5}$  in./in./°F to approximately  $4.0 \cdot 10^{-5}$   
3 in./in./°F.

1 16. The device of claim 9, wherein said resin is selected from the group consisting of RP  
2 132 resin, RP 3262 resin, and RP 3269 resin.

1 17. The device of claim 1, wherein said insert is removably coupled to said housing.

1 18. The device of claim 1, wherein:  
2 said housing includes a lower housing part and an upper housing part; and  
3 said insert includes a lower insert part coupled to said lower housing part and an upper  
4 insert part coupled to said upper housing part.

1 19. The device of claim 18, wherein said lower housing part is hingedly connected to said  
2 upper housing part.

1 20. The device of claim 1, wherein said locking mechanism includes a cross bar and a  
2 locking bar.

1 21. The device of claim 20, wherein said locking bar is selectively engageable with said  
2 cross bar to retain the golf club head within said housing.

1     22.     The device of claim 20, wherein:

2                said locking mechanism further includes a stator bar coupled to said housing at one  
3     end and hingedly coupled to said cross bar at an opposite end; and  
4                said locking bar is hingedly coupled to said housing.

1     23.     The device of claim 22, wherein:

2                said housing includes a lower housing part and an upper housing part, said lower  
3     housing part being hingedly connected to said upper housing part; and  
4                said cross bar is moveable between an open position, in which said housing parts are  
5     relatively moveable, and a closed position, in which said housing parts are relatively fixed.

1     24.     The device of claim 23, wherein:

2                said locking bar includes a lock; and  
3                said lock is selectively engageable to retain said cross bar in said closed position.

1     25.     The device of claim 22, wherein:

2                said cross bar includes a notch; and  
3                said locking bar is configured to fit, at least in part, within said notch.

1     26.     The device of claim 25, further comprising a lock coupled to said locking bar.

1     27.     The device of claim 26, wherein said lock is selectively engageable to retain or release  
2     said cross bar.

1     28.     The device of claim 27, wherein said lock is threadably engageable.

1     29.     The device of claim 1, wherein the device is portable.

1     30.     The device of claim 1, further comprising a base member for securing said housing  
2     member.

1     31.     The device of claim 30, wherein said base member is integral with said housing.

1     32.     The device of claim 30, wherein said base member is configured to be at least partially  
2     retained within a vise.

1     33.     A device for customizing each of a group of distinct golf clubs, comprising:  
2             a housing;  
3             a plurality of inserts, each of said inserts being tailored to a specific golf club of the  
4     group of distinct golf clubs; and  
5             a locking mechanism.

1     34.     The device of claim 33, wherein each of said inserts is at least partially contoured to its  
2     specific golf club.

1     35.     The device of claim 34, wherein each of said inserts substantially envelopes its  
2     specific golf club.